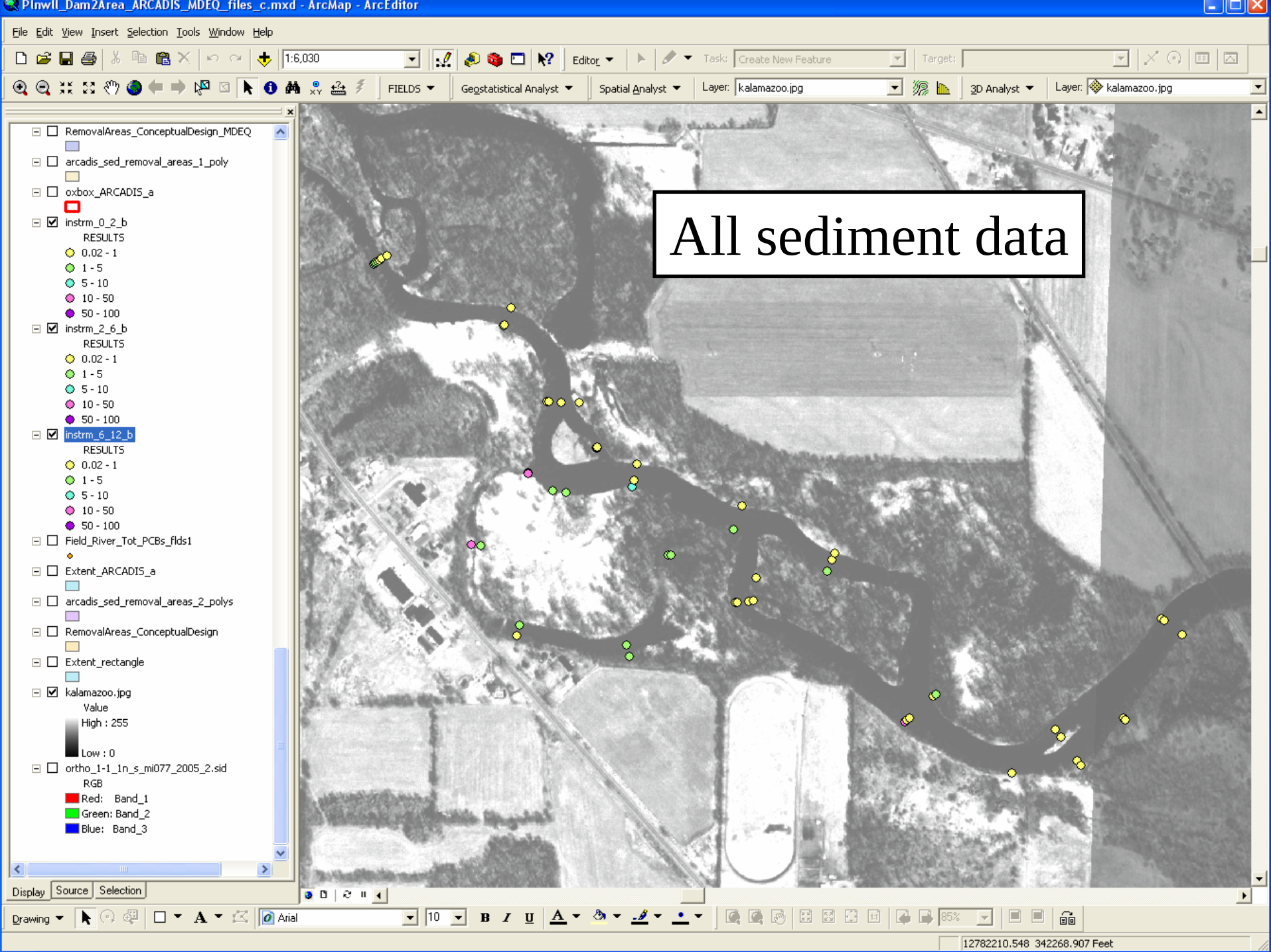
Plainwell Dam #2 Area

examination of ARCADIS' proposed oxbow removal

Results from ARCADIS' Summer 2008 sampling event

Take home message:

ARCADIS' proposed oxbow removal is smaller than the one they proposed in the GLLA presentation. However, the concentration of PCBs left behind is about the same whether they do the GLLA oxbow removal or their newer, smaller one. But, what is left behind is still above 1 ppm average PCB concentration.

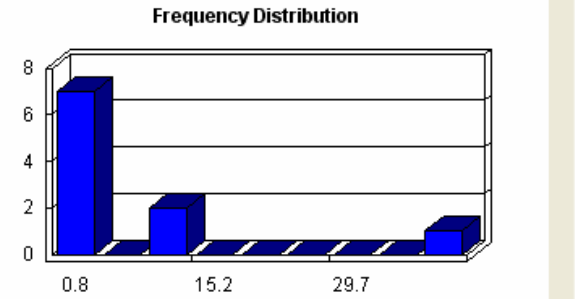

Plnwll_Dam2Area_ARCADIS_MDEQ_files_c.mxd - ArcMap - ArcEditor
File Edit View Insert Selection Tools Window Help
1:6,030
Editor
Task: Create New Feature
Target:
FIELDS
Geostatistical Analyst
Spatial Analyst
Layer: kalamazoo.jpg
3D Analyst
Layer: kalamazoo.jpg
RemovalAreas_ConceptualDesign_MDEQ
arcadis_sed_removal_areas_1_poly
oxbox_ARCADIS_a
instrm_0_2_b
RESULTS
0.02 - 1
1 - 5
5 - 10
10 - 50
50 - 100
instrm_2_6_b
RESULTS
0.02 - 1
1 - 5
5 - 10
10 - 50
50 - 100
instrm_6_12_b
RESULTS
0.02 - 1
1 - 5
5 - 10
10 - 50
50 - 100
Field_River_Tot_PCBs_flds1
Extent_ARCADIS_a
arcadis_sed_removal_areas_2_polys
RemovalAreas_ConceptualDesign
Extent_rectangle
kalamazoo.jpg
Value
High : 255
Low : 0
ortho_1-1_1n_s_mi077_2005_2.sid
RGB
Red: Band_1
Green: Band_2
Blue: Band_3
All sediment data
Display Source Selection
Drawing
Arial
10
12782210.548 342268.907 Feet

All sediment PCBs in Oxbow

Total PCB values in 2-6 inch layer of these sample cores

Field: RESULTS

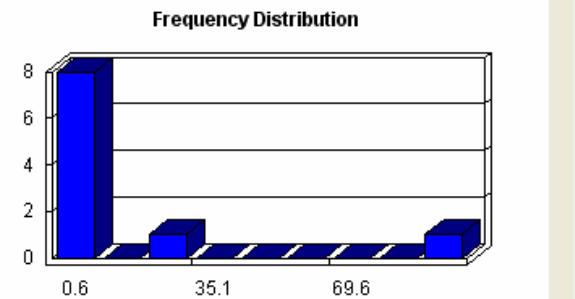
Statistics:
Count: 10
Minimum: 0.8
Maximum: 42.4
Sum: 80.53
Mean: 8.053
Standard Deviation: 12.233749



Total PCB values in 2-6 inch layer of these sample cores

Field: RESULTS

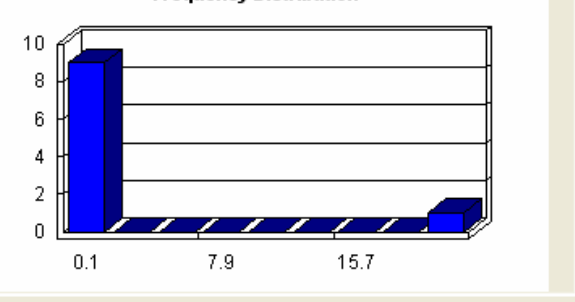
Statistics:
Count: 10
Minimum: 0.587
Maximum: 100
Sum: 156.237
Mean: 15.6237
Standard Deviation: 29.43816

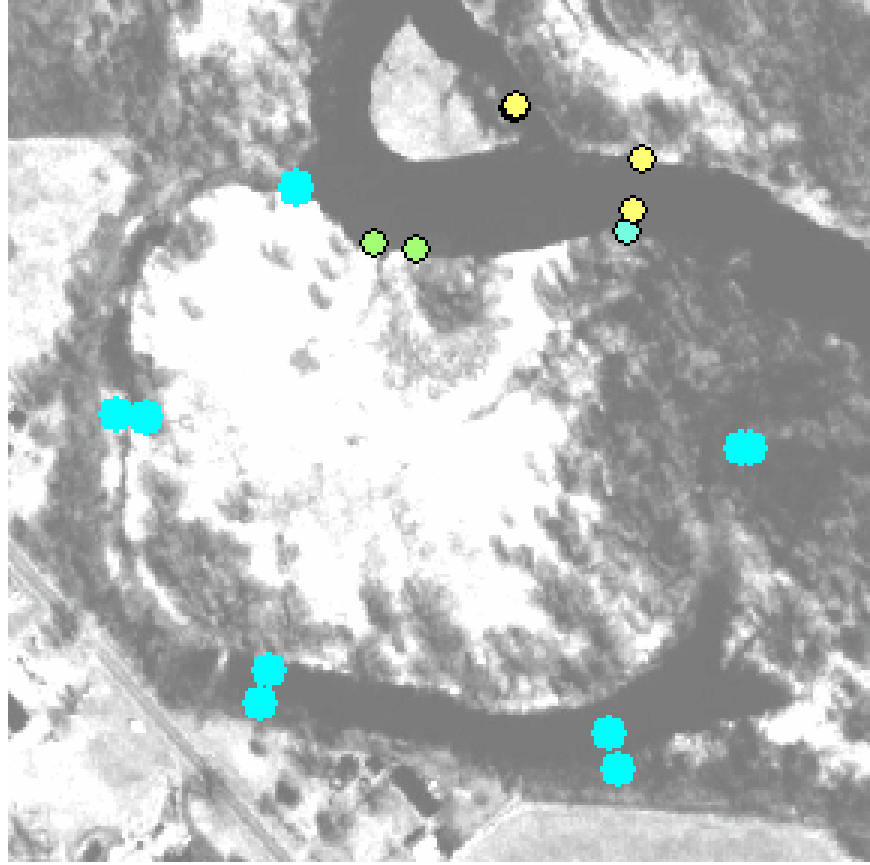


Total PCB values in 6-12 inch layer of these sample cores

Field: RESULTS

Statistics:
Count: 10
Minimum: 0.057
Maximum: 22.6
Sum: 28.318
Mean: 2.8318
Standard Deviation: 6.624689



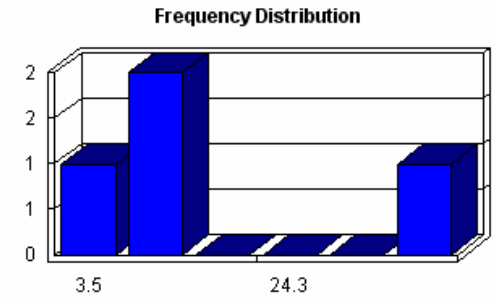


Sediment PCBs in Oxbow, to be removed by ARCADIS

Total PCB values in 2-6 inch layer of these sample cores

Field: RESULTS

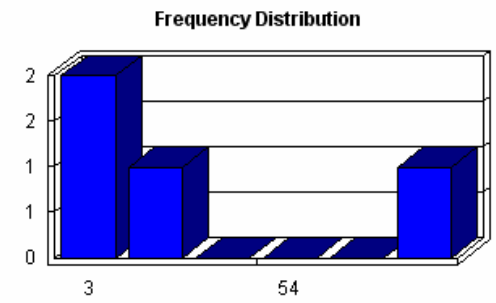
Statistics:
Count: 4
Minimum: 3.49
Maximum: 42.4
Sum: 71.09
Mean: 17.7725
Standard Deviation: 14.705382



Total PCB values in 2-6 inch layer of these sample cores

Field: RESULTS

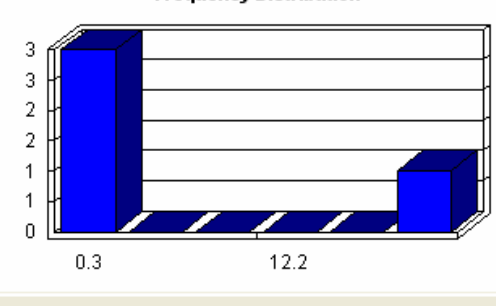
Statistics:
Count: 4
Minimum: 3
Maximum: 100
Sum: 141.19
Mean: 35.2975
Standard Deviation: 38.914683

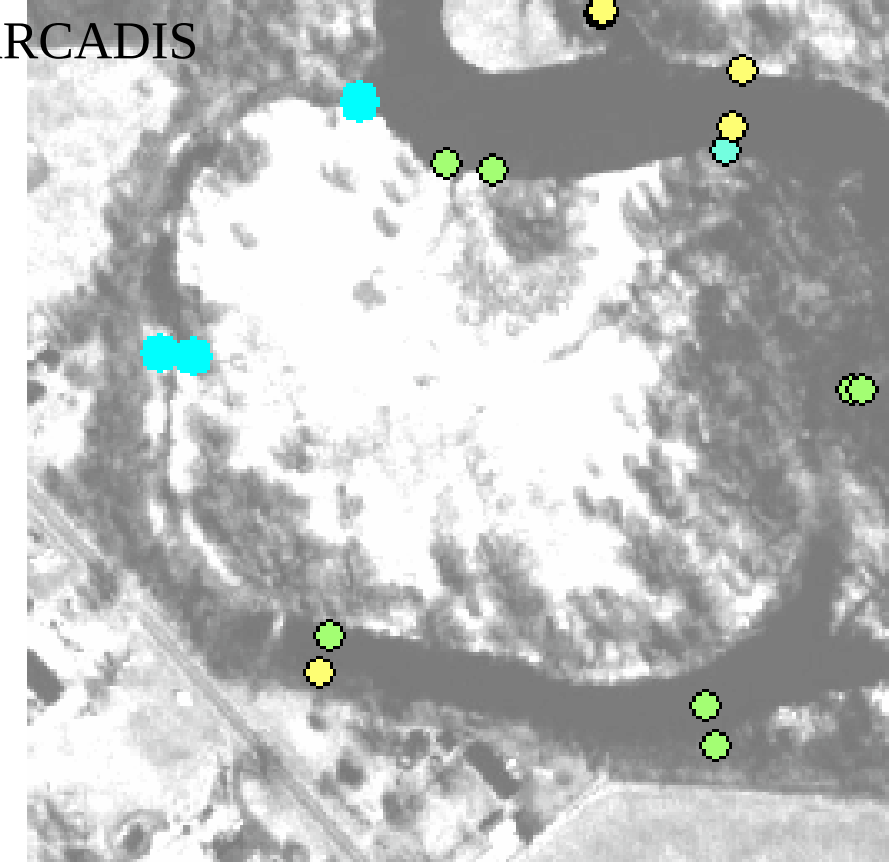


Total PCB values in 6-12 inch layer of these sample cores

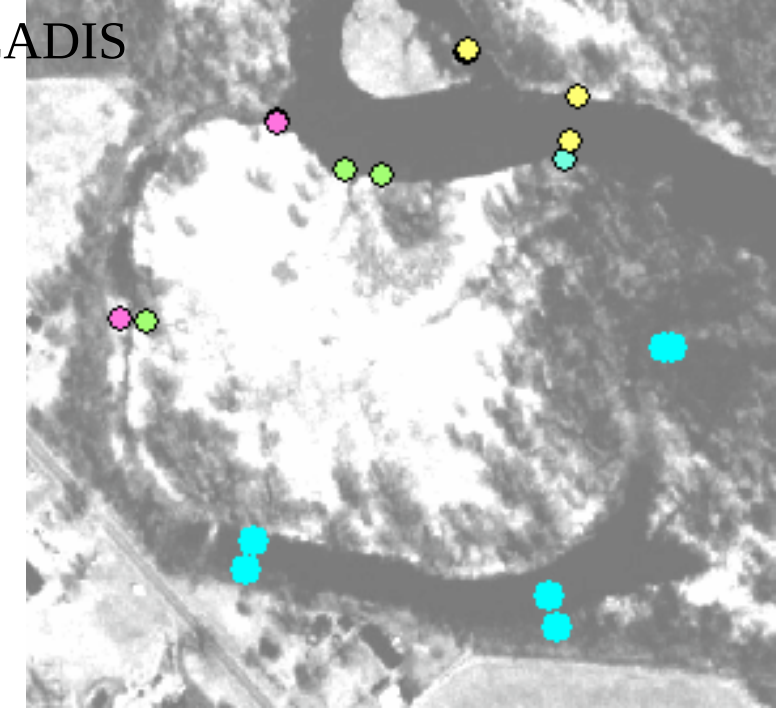
Field: RESULTS

Statistics:
Count: 4
Minimum: 0.25
Maximum: 22.6
Sum: 24.35
Mean: 6.0875
Standard Deviation: 9.541471

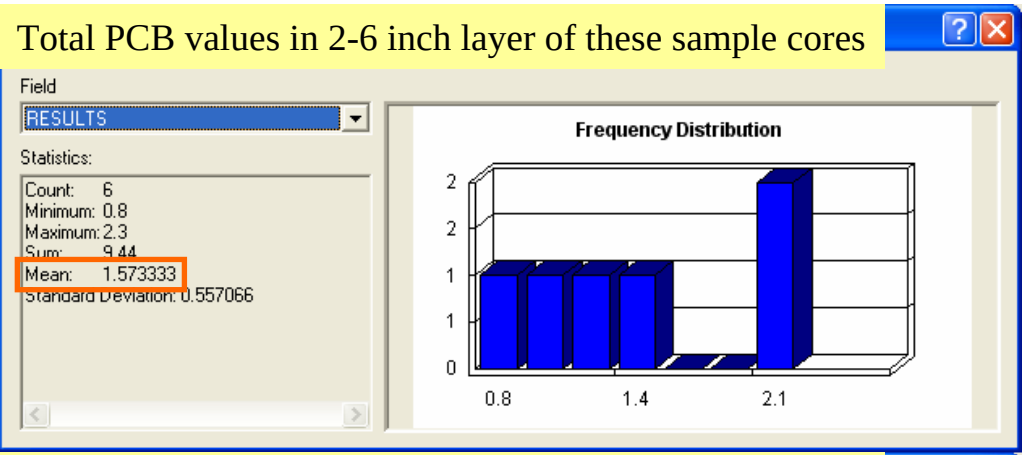




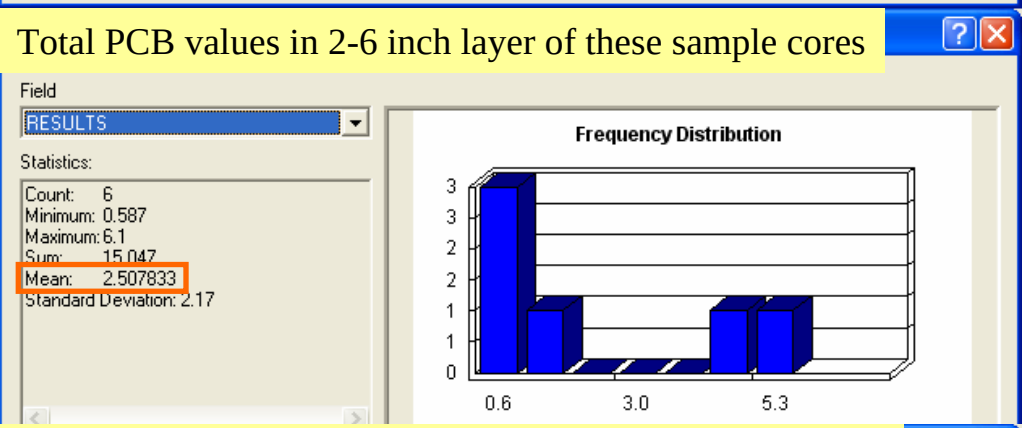
Sediment PCBs in Oxbow, to be left behind by ARCADIS



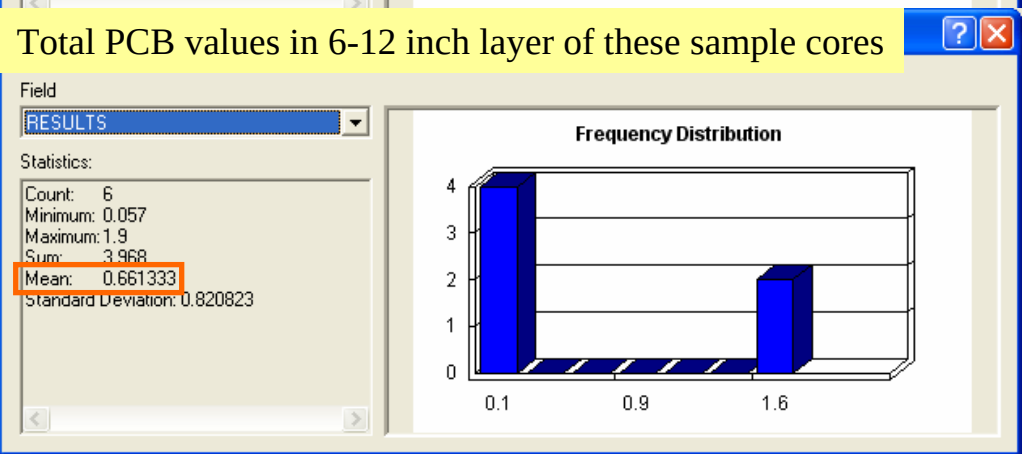
Total PCB values in 2-6 inch layer of these sample cores



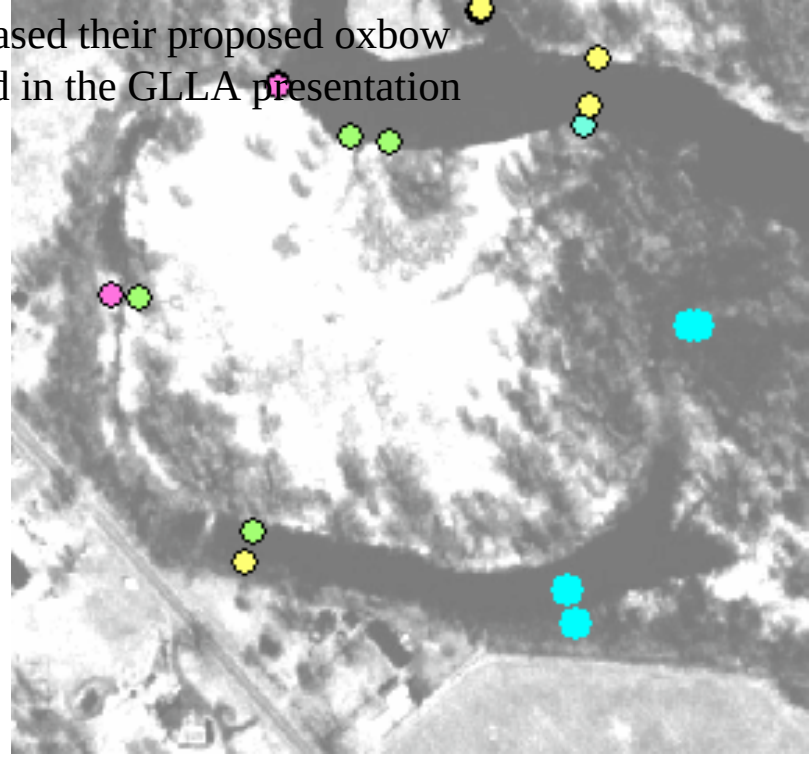
Total PCB values in 2-6 inch layer of these sample cores



Total PCB values in 6-12 inch layer of these sample cores



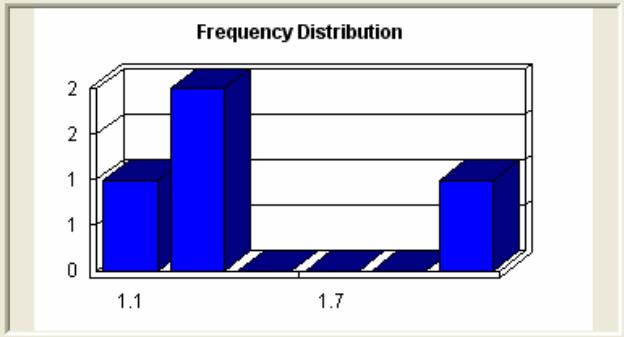
Sediment PCBs in Oxbow, to be left behind if ARCADIS increased their proposed oxbow removal polygon by the next sediment transect as they proposed in the GLLA presentation



Total PCB values in 2-6 inch layer of these sample cores

Field: RESULTS

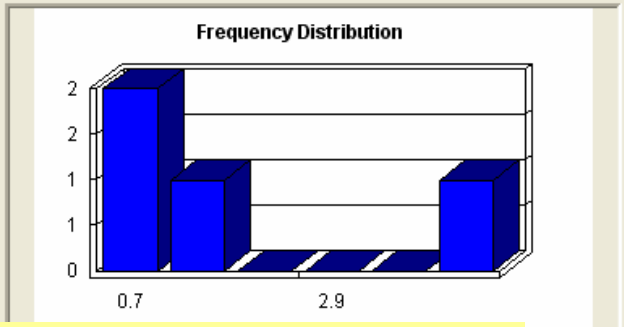
Statistics:
Count: 4
Minimum: 1.11
Maximum: 2.3
Sum: 6.36
Mean: 1.59
Standard Deviation: 0.436864



Total PCB values in 2-6 inch layer of these sample cores

Field: RESULTS

Statistics:
Count: 4
Minimum: 0.67
Maximum: 4.86
Sum: 8.36
Mean: 2.09
Standard Deviation: 1.65543



Total PCB values in 6-12 inch layer of these sample cores

Field: RESULTS

Statistics:
Count: 4
Minimum: 0.057
Maximum: 1.9
Sum: 2.149
Mean: 0.53725
Standard Deviation: 0.787128